

$$1\text{KN}=1000\text{N}$$

$$100\text{KN}=1000000\text{N}=10\text{TON}$$

$$1\text{mm}=1\times 10^{-3}\text{ meter}$$

$$20\text{MPa}=20\times 10^6\text{ N/m}^2$$

$$1\text{Pa}=1\text{ N/m}^2$$

$$1\text{MPa}=1\text{ N/mm}^2=1000000\text{ Pa}=1\text{ MN/mm}^2=0.145\text{ KSI}=145\text{ PSI}$$

$$1\text{GPa}=1000\text{MPa}$$

$$1\text{KPa}=1\times 10^{-3}\text{ MPa}$$

The ksi ("kilo-pound[-force] per square inch") is 1000 psi

	<u>Pascal</u> (Pa)	<u>Bar</u> (bar)	<u>Technical atmosphere</u> (at)	<u>Atmosphere</u> (atm)	<u>Torr</u> (Torr)	<u>Pound-force per square inch</u> (psi)
1 Pa	$\equiv 1\text{ N/m}^2$	10^{-5}	1.0197×10^{-5}	9.8692×10^{-6}	7.5006×10^{-3}	145.04×10^{-6}
1 bar	100,000	$\equiv 10^6\text{ dyn/cm}^2$	1.0197	0.98692	750.06	14.5037744
1 at	98,066.5	0.980665	$\equiv 1\text{ kgf/cm}^2$	0.96784	735.56	14.223
1 atm	101,325	1.01325	1.0332	$\equiv 1\text{ atm}$	760	14.696
1 torr	133.322	1.3332×10^{-3}	1.3595×10^{-3}	1.3158×10^{-3}	$\equiv 1\text{ Torr};$ $\approx 1\text{ mmHg}$	19.337×10^{-3}
1 psi	6.894×10^3	68.948×10^{-3}	70.307×10^{-3}	68.046×10^{-3}	51.715	$\equiv 1\text{ lbf/in}^2$

Example reading: $1\text{ Pa} = 1\text{ N/m}^2 = 10^{-5}\text{ bar} = 10.197\times 10^{-6}\text{ at} = 9.8692\times 10^{-6}\text{ atm} = 7.5006\times 10^{-3}\text{ torr} = 145.04\times 10^{-6}\text{ psi}$
etc.